

## CHAPTER 14 COST ESTIMATE

Cost estimates were prepared for the initial six-lane freeway construction. The estimate was prepared utilizing the ADOT level 1 cost estimate format which is suitable for the DCR level of project development. The unit prices were based upon recent unit costs available from the ADOT Management Consultant and generally represent 2007 prices.

The total project cost consists of 17.03 miles of SR 303L, 2.0 miles of I-10 and the regional drainage system associated with SR 303L from Van Buren Street to Bell Road. The entire project includes three system interchanges, 10 tight diamond type interchanges, and five half-diamond interchanges, and 10 miles of two-lane one-way frontage roads.

In most cases, SR 303L is planned to be elevated with the intersecting arterial at-grade under the freeway. At these locations, approximately 1,200 feet of street construction is included in the freeway cost estimate.

The construction cost estimate is based on the cost of major items including earthwork, paving, drainage, structures, traffic elements, and the relocation of utilities, irrigation, and wells. Sound wall locations have been approximated for the purpose of this cost estimate. Estimates of retaining walls are included. The category of “major items of work” includes curbs, barrier, fencing, etc. A line item of 20% for “unidentified items” has been included to cover the unknowns in the 15% plans developed as part of this DCR. Construction engineering (9%) and contingency (5%) is estimated to be a total of 14% of the construction cost. Engineering and design is estimated to be 8% of the construction cost.

Right-of-way costs were estimated separately from construction and engineering costs. The cost of right-of-way is generally the most volatile cost element of a major project that will be implemented over several years. Staff members from MCDOT, ADOT, and FCDMC were consulted regarding appropriate square foot or per acre unit prices. Given the accelerated rate of development in the corridor, the cost of land is estimated to be significantly greater than was assumed in the 2002 IDCR prepared for a portion of this corridor. The cost estimate does not include purchase of dedicated right-of-way that may be subject to the reverter clause.

The cost of the regional drainage system was estimated separately because it is expected to be jointly funded by the highway project and FCDMC. This system extends from Van Buren Street to Bell Road and includes major detention basins along the corridor as shown in Chapter 6. The FCDMC will construct the system from Van Buren Street to the Gila River as a separate project. No costs have been included in this DCR for that section. It is assumed that the regional drainage system as defined in this document would be built in its entirety concurrent with the construction of the six-lane freeway.

Table 14-1 provides a summary of the overall project cost to construct SR 303L as a six-lane freeway with auxiliary lanes between service interchanges and to construct the north half of the I-10 system interchange, all of the Northern Parkway and US 60 interchanges, and the regional drainage system to Van Buren Street. The construction cost for this freeway from I-10 to US 60 is \$985 million plus \$219 million for right-of-way for the ultimate freeway, the entire I-10 interchange and the regional drainage system. The south half of the I-10 interchange (estimated cost is \$103 million) would be constructed at a later date when SR 303L is extended to MC 85/I-10 Reliever. The “Construction” column in Table 14-1 includes construction administration and contingency.

**Table 14-1 Cost Estimate Summary (in millions 2007 dollars)**

	Construction	Design	Right-of-Way	Total
SR 303L I-10 to US 60 <sup>a</sup>	\$985	\$79	\$219	\$1,283
I-10 Widening/Realign <sup>b</sup>	124	10	62	196
I-10/SR 303 Phase II <sup>c</sup>	103	8	0	111
<b>Total SR 303 and I-10</b>	<b>\$1,212</b>	<b>\$97</b>	<b>\$281</b>	<b>\$1,590</b>

<sup>a</sup> Includes north half of I-10 TI, frontage roads to Van Buren, and regional drainage system to Van Buren; SR 303L is six lanes. The entire US 60 and Northern Parkway TIs are included.

<sup>b</sup> 5+1 lanes each direction Citrus Road to Sarival.

<sup>c</sup> Includes south half of I-10 TI and SR 303L Van Buren to north of McDowell.

I-10 would need to be realigned to the north of its current centerline and widened to accommodate the SR 303L interchange. Those improvements need to be made prior to or concurrent with the construction of the system interchange. The cost estimate for I-10 includes realignment of the three lanes in each direction (to be constructed in 2009 as temporary improvement). Construction of all the I-10 main line bridges in this section is also included in the cost estimate. The improvements included in this cost estimate extend along I-10 from Citrus Road to Sarival Avenue. The cost of the additional lanes needed along I-10 to approach the ramps to SR 303L and to dissipate the ramps from SR 303L was included in the SR 303L system TI cost instead of the I-10 cost. Additional widening of I-10 to the MAG RTP plan of 4+1 lanes is not included in the cost estimate.

The MAG RTP allocates funding to SR 303L in three separate sections: (1) MC 85 to I-10; (2) I-10 to US 60; and (3) US 60 to I-17. In addition, widening and improvements to I-10 and to US 60 are in separate funding pots in the MAG RTP. Since the project as proposed in the DCR includes portions of all these funding pots, the cost estimate has been separated into major components to aid in comparison with the funding pot definitions. The summary in Table 14-2 provides the cost estimate for construction and right-of-way (design is not included) for these separate components and the project total. Figure 14-1 provides a graphical illustration of which portion of the project near I-10 was placed in the various components.

Table 14-2 Cost Estimate by Major Components (in millions 2007 dollars)

Component	Construction	Right-of-Way	Total
<b>SR 303L</b>			
I-10 TI Phase I (North half)	\$172	\$60	\$232
North of McDowell to south of US 60	609	141	750
Northern Parkway TI	54	9	63
US 60 TI	140	9	149
Widen US 60 to six lanes	10	0	10
<b>Subtotal I-10 to US 60</b>	<b>\$985</b>	<b>\$219</b>	<b>\$1,204</b>
I-10 TI Phase II (South half)	\$103	\$0	\$103
<b>Total SR 303L</b>	<b>\$1,088</b>	<b>\$219</b>	<b>\$1,307</b>
I-10 Widen, Realign	\$124	\$62	\$186
	<b>\$1,212</b>	<b>\$281</b>	<b>\$1,493</b>

The estimated construction cost of SR 303L is approximately \$47 million per mile not including the three system interchanges. Construction of the I-10 system interchange is estimated to cost \$400 million and the US 60 interchange is estimated to cost \$149 million. The widening and reconstruction of US 60 for approximately 6,800 feet is estimated to be an additional \$10 million. Construction of the Northern Parkway system interchange is estimated to cost \$54 million for the ramp connections extending to the western abutment of the structure over Sarival Avenue. The SR 303L mainline and the frontage roads connecting the Northern and Olive avenues split half diamond interchanges are not included in that system interchange cost.

The cost estimate in the ADOT level 1 format is shown in Table 14-3. Approximately 12 million cubic yards of excavation will be needed. Some of this material will probably be stockpiled for future construction south of Van Buren Street. Almost 2 million square yards of concrete pavement with rubberized asphalt finish course will be used on the project.

To aid in future project programming, the project cost was estimated by one-mile segments as shown in Figure 14-2. The estimates are provide for each segment in Table 14-4A through 14-4R. Note that Table 14-3 is the sum of Tables 14-4A-R. The system interchange at I-10 is Segment 1. The cost estimate for the I-10 interchange is further divided into three elements: (1) I-10 widening (Table 14-4B), (2) Phase 1 north half of SR 303L system interchange (Table 14-4A), and (3) Phase 2 south half of SR 303L system interchange (Table 14-5). A separate estimate was prepared for Northern Parkway interchange ramps and included as Segment 7A (Table 14-4I). The system interchange at US 60 is Segment 16 (Table 14-4R).

P:\MCDOT23443107\DCR May 2008\Figures\PDF\Fig14-1\_I-10InterchangeCostAllocation.pdf (original P:\MCDOT23443107\DCR Jun 2008\Figures\Fig14-1\_I-10 I-10 Ph1 and 2.dgn)

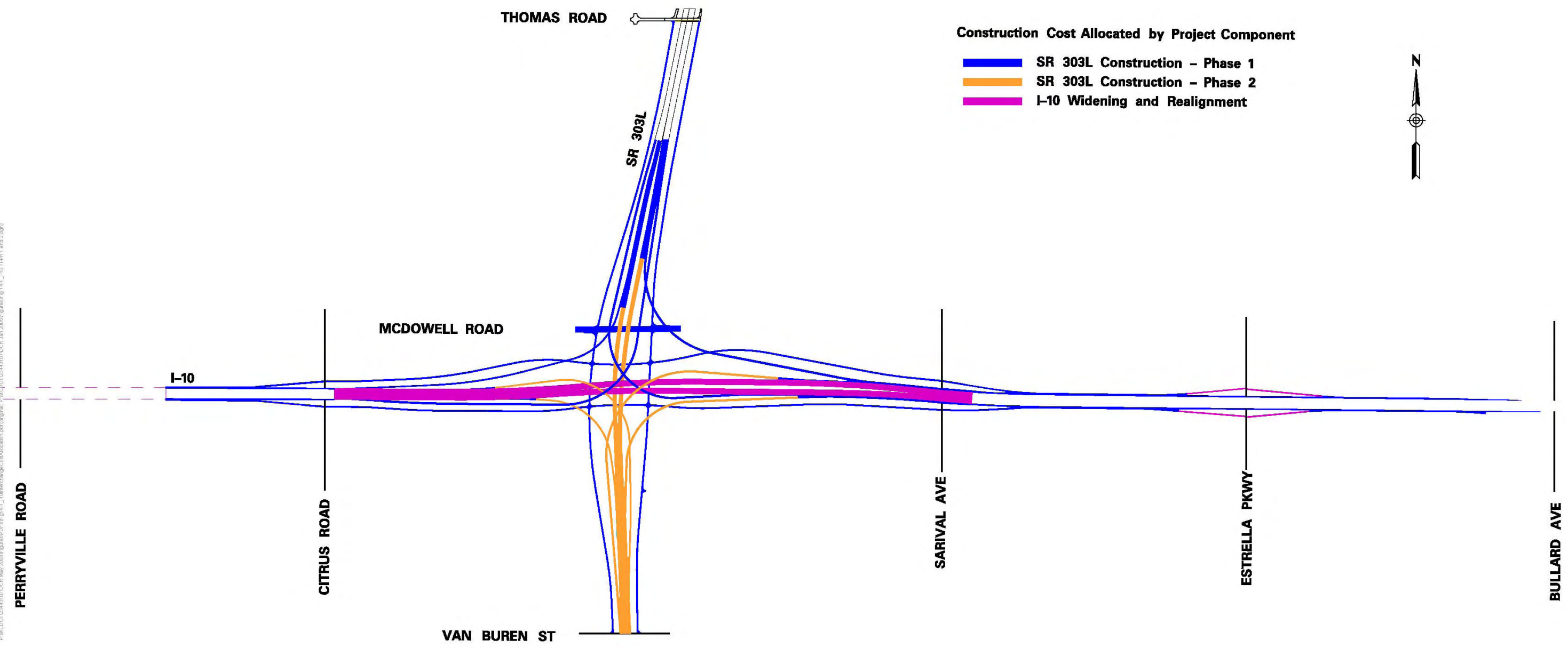


Figure 14-1 I-10/SR 303L Interchange Cost Allocation

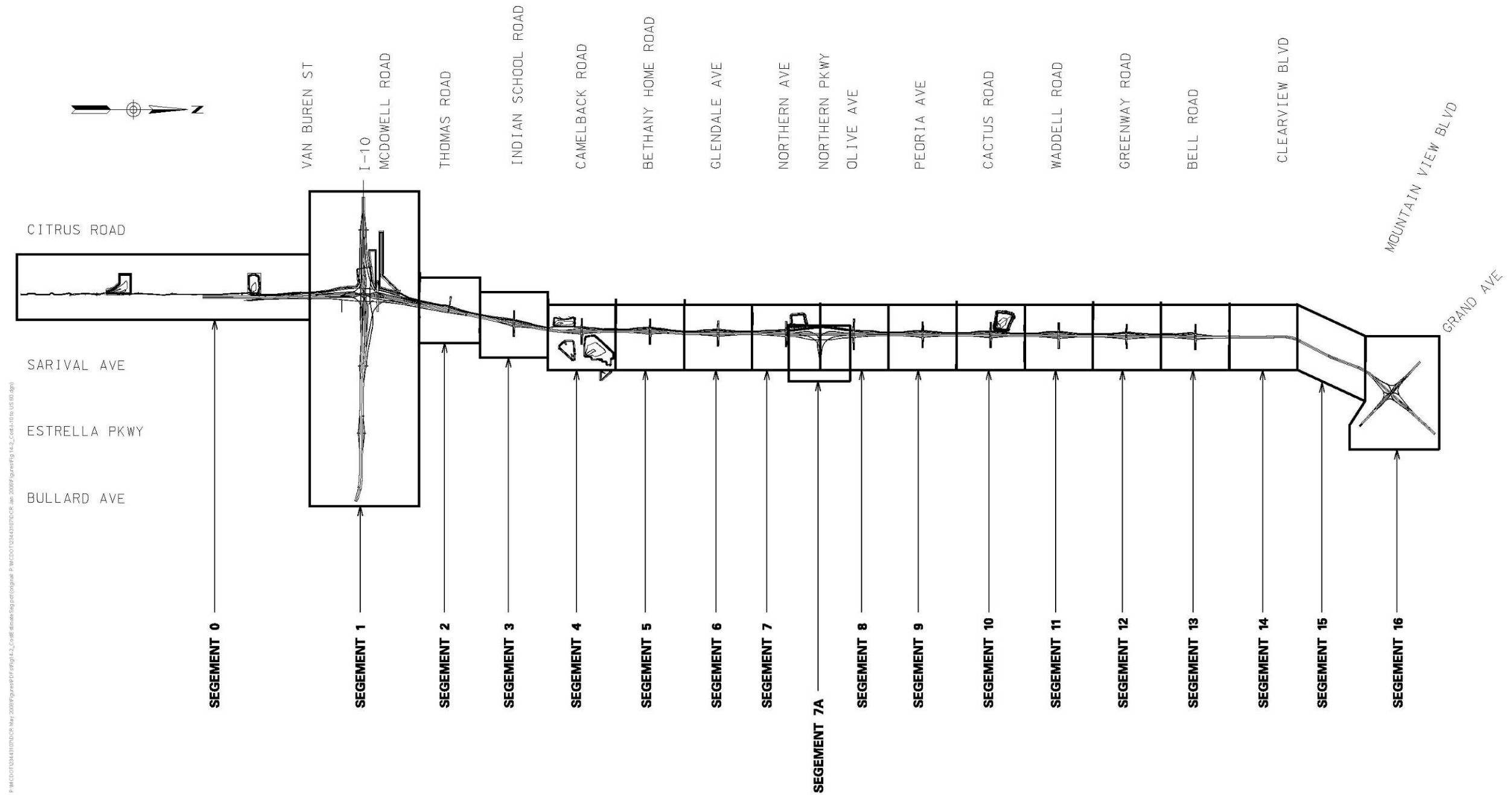


Figure 14-2 Cost Estimate Segments

Table 14-3

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 LID NO. WORK DESCRIPTION: 6-lane freeway

SECTION Segment 1 thru 16 (doesn't include I-10 Phase 2)

LENGTH 16.5 MileLevel 1PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	3,964,238	3.87 - 5.53	\$20,169,849
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	397,709	6.00 - 7.00	\$2,684,703
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	694,025	4.50 - 9.50	\$5,941,731
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	6,437,708	6.00 - 7.00	\$40,785,815
	BORROW	CU. YD.	5,978,369	5.50 - 10.00	\$44,195,363
TOTAL ITEM 200					\$113,777,462
300 & 400	BASE AND SURFACE TREATMENT	SQ. YD.	1,783,790	48.00 - 56.08	\$93,525,422
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	335,470	21.78 - 29.51	\$7,870,081
	ASPHALT PAVEMENT				\$101,395,504
TOTAL ITEM 300 & 400					
500	DRAINAGE				
	ON-SITE	MILE	21.1	1315k - 2674k	\$49,488,086
	OFF-SITE	MILE	21.1	500k - 3185k	\$57,958,625
	PUMP STATION	EACH	1	\$4,871,948	\$4,871,948
TOTAL ITEM 500					\$112,318,658
600	STRUCTURES				
	BRIDGE	SQ.FT.	1,424,716	109 -156	\$176,248,769
	ADMP STRUCTURE	SQ.FT.	177,975	\$55	\$9,788,625
TOTAL ITEM 600					\$186,037,395
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	21	\$410,000	\$18,256,958
	LIGHTING	MILE	21	400k - 982k	\$18,192,285
	SIGNAL	EACH	38	\$175,000	\$8,823,400
	ITS	MILE	21	\$1,120,000	\$6,205,140
TOTAL ITEM 700					\$51,477,783
800	LANDSCAPING				
	LANDSCAPING	MILE	21	\$750,000	\$20,819,457
TOTAL ITEM 800					\$20,819,457
900	INCIDENTALS				
	WELL RELOCATION	EACH	17	\$684,000	\$11,628,000
	WALLS (SOUND)	SQ.FT.	1,264,000	\$30	\$44,108,704
	WALLS (RETAINING)	SQ.FT.	414,345	\$65	\$27,123,603
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc	MILE	21	22,789,500	\$24,021,577
	UTILITY RELOCATION	L.SUM	8	\$0	\$2,712,000
	RAILROAD SHOOFLY	EACH	1		\$2,200,000
	TOTAL ITEM 900				\$111,795,000
SUBTOTAL A					\$697,621,259
MISCELLANEOUS WORK				20%	\$136,001,376
SUBTOTAL B					\$833,622,635
	DUST PALLIATIVE			2%	\$16,672,454
	FURNISH WATER			2%	\$16,672,454
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$41,681,131
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$16,672,454
	CONTRACTOR QUALITY CONTROL			4%	\$33,344,907
	TOTAL				\$125,043,400
SUBTOTAL C					\$958,666,035
MOBILIZATION				8%	\$76,693,282
SUBTOTAL D					\$1,035,359,317
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	1,783,790	\$1.50	\$2,675,686
	MATERIAL QUALITY (AC)	Tons	224,900	\$1.50	\$337,200
	SMOOTHNESS	LN.MILE	198	\$11,000	\$2,634,720
TOTAL INCENTIVES					\$5,647,606
SUBTOTAL E					\$1,056,178,774
CONSTRUCTION ENGINEERING				9%	\$95,056,090
CONSTRUCTION CONTINGENCY				5%	\$52,808,941
TOTAL ESTIMATED CONSTRUCTION COST					\$1,108,987,715
DESIGN ENGINEERING (8%)				8%	\$88,719,017
ROW		ACRE	1,086	Varies	\$281,003,580
TOTAL COST					\$1,478,710,312

Table 14-4 A

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 LID NO. WORK DESCRIPTION: 6-lane freeway

SECTION Segment 1 - I10 Phase 1

LENGTH 1.00 MileLevel 1PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	515,581	\$3.87	\$1,995,298
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	105,001	\$7.00	\$735,007
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	131,215	\$9.50	\$1,246,543
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	2,159,567	\$7.00	\$15,116,969
	BORROW	CU. YD.	0		\$0
TOTAL ITEM 200					\$19,093,817
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	127,260	\$50.35	\$6,407,541
	ASPHALT PAVEMENT	SQ. YD.	135,425	\$21.78	\$2,949,557
TOTAL ITEM 300 & 400					\$9,357,098
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,640,264	\$2,640,264
	OFF-SITE MILE	MILE	1.00	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
TOTAL ITEM 500					\$5,825,082
600	STRUCTURES				
	BRIDGE	SQ.FT.	503,870	\$120	\$60,464,400
	ADMP STRUCTURE	SQ.FT.	24,400	\$55	\$1,342,000
TOTAL ITEM 600					\$61,806,400
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	10	\$175,000	\$1,750,000
	ITS	MILE	1.00	\$232,961	\$232,961
TOTAL ITEM 700					\$3,938,255
800	LANDSCAPING				
	LANDSCAPING	MILE	1.00	\$1,101,281	\$1,101,281
TOTAL ITEM 800					\$1,101,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	2	\$684,000	\$1,368,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	82,400	\$65	\$5,356,000
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	1	\$418,000	\$418,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$8,308,000
SUBTOTAL A					\$109,429,933
MISCELLANEOUS WORK				20%	\$21,885,987
SUBTOTAL B					\$131,315,920
	DUST PALLIATIVE			2%	\$2,626,318
	FURNISH WATER			2%	\$2,626,318
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$6,565,796
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$2,626,318
	CONTRACTOR QUALITY CONTROL			4%	\$5,252,637
	TOTAL				\$19,697,387
SUBTOTAL C					\$151,013,307
MOBILIZATION				8%	\$12,081,065
SUBTOTAL D					\$163,094,372
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	127,260	\$1.50	\$190,890
	MATERIAL QUALITY (AC)	Tons	90,800	\$1.50	\$136,200
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
TOTAL INCENTIVES					\$459,090
SUBTOTAL E					\$164,195,653
CONSTRUCTION ENGINEERING				9%	\$14,777,609
CONSTRUCTION CONTINGENCY				5%	\$8,209,783
TOTAL ESTIMATED CONSTRUCTION COST					\$172,405,436
DESIGN ENGINEERING (8%)				8%	\$13,792,435
ROW		ACRE	188.9	\$315,400	\$59,579,060
TOTAL COST					\$245,776,931





Table 14-4 B

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 LID NO. WORK DESCRIPTION: 6-lane freeway

SECTION Segment 1 - I10 Only

LENGTH 2.30 MileLevel 1PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	0	\$3.87	\$0
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	0	\$7.00	\$0
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$9.50	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$7.00	\$0
	TOTAL ITEM 200				\$0
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	257,865	\$50.35	\$12,983,503
	ASPHALT PAVEMENT	SQ. YD.	0	\$21.79	\$0
	TOTAL ITEM 300 & 400				\$12,983,503
500	DRAINAGE				
	ON-SITE	MILE	2.30	\$2,640,264	\$6,072,607
	OFF-SITE	MILE	2.30	\$3,184,818	\$7,325,081
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$13,397,688
600	STRUCTURES				
	BRIDGE	SQ.FT.	257,636	\$120	\$30,916,320
	ADMP STRUCTURE	SQ.FT.	52,585	\$55	\$2,892,175
	TOTAL ITEM 600				\$33,808,495
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	2.30	\$981,699	\$2,257,908
	LIGHTING	MILE	2.30	\$973,595	\$2,239,269
	SIGNAL	EACH	0	\$175,000	\$0
	ITS	MILE	2.30	\$232,961	\$535,810
	TOTAL ITEM 700				\$5,032,987
800	LANDSCAPING				
	LANDSCAPING	MILE	2.30	\$1,105,281	\$2,542,146
	TOTAL ITEM 800				\$2,542,146
900	INCIDENTALS				
	WELL RELOCATION	EACH	0	\$684,000	\$0
	WALLS (SOUND)	SQ.FT.	112,000	\$30	\$3,360,000
	WALLS (RETAINING)	SQ.FT.	61,600	\$65	\$4,004,000
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	2.30	\$1,165,748	\$2,681,220
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$10,045,000
	SUBTOTAL A				\$77,809,819
	MISCELLANEOUS WORK			20%	\$15,561,964
	SUBTOTAL B				\$93,371,783
	DUST PALLIATIVE			2%	\$1,867,436
	FURNISH WATER			2%	\$1,867,436
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$4,668,589
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$1,867,436
	CONTRACTOR QUALITY CONTROL			4%	\$3,734,871
	TOTAL				\$14,005,768
	SUBTOTAL C				\$107,377,551
	MOBILIZATION			8%	\$8,590,204
	SUBTOTAL D				\$115,967,755
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	257,865	\$1.50	\$386,798
	MATERIAL QUALITY (AC)	Tons	0	\$1.50	\$0
	SMOOTHNESS	LN.MILE	13.8	\$11,000	\$151,800
	TOTAL INCENTIVES				\$538,598
	SUBTOTAL E				\$118,509,901
	CONSTRUCTION ENGINEERING			9%	\$10,665,891
	CONSTRUCTION CONTINGENCY			5%	\$5,925,495
	TOTAL ESTIMATED CONSTRUCTION COST				\$124,435,396
	DESIGN ENGINEERING (8%)			8%	\$9,954,832
	ROW	ACRE	197.2	\$315,400	\$62,196,880
	TOTAL COST				\$196,587,108

Table 14-4 C

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 LID NO. WORK DESCRIPTION: 6-lane freeway

SECTION Segment 2 - Thomas Road

LENGTH 1.02 MileLevel 1PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	450,200	\$3.87	\$1,742,274
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	2,667	\$7.00	\$18,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	51,358	\$9.50	\$487,901
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$2,248,844
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	90,200	\$50.35	\$4,541,570
	ASPHALT PAVEMENT	SQ. YD.	29,425	\$21.79	\$641,171
	TOTAL ITEM 300 & 400				\$5,182,741
500	DRAINAGE				
	ON-SITE	MILE	1.02	\$2,640,264	\$2,693,069
	OFF-SITE	MILE	1.02	\$3,184,818	\$3,248,514
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,941,583
600	STRUCTURES				
	BRIDGE	SQ.FT.	23,560	\$109	\$2,556,496
	ADMP STRUCTURE	SQ.FT.	6,840	\$55	\$376,200
	TOTAL ITEM 600				\$2,932,696
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.02	\$981,699	\$1,001,333
	LIGHTING	MILE	1.02	\$973,595	\$993,067
	SIGNAL	EACH	3	\$175,000	\$525,000
	ITS	MILE	1.02	\$232,961	\$237,620
	TOTAL ITEM 700				\$2,757,020
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.02	\$1,105,281	\$1,127,387
	TOTAL ITEM 800				\$1,127,387
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	43,200	\$30	\$1,296,000
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.02	\$1,165,748	\$1,189,063
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$3,230,000
	SUBTOTAL A				\$23,420,271
	MISCELLANEOUS WORK			20%	\$4,684,054
	SUBTOTAL B				\$28,104,325
	DUST PALLIATIVE			2%	\$562,087
	FURNISH WATER			2%	\$562,087
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,405,216
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$562,087
	CONTRACTOR QUALITY CONTROL			4%	\$1,124,173
	TOTAL				\$4,215,650
	SUBTOTAL C				\$32,319,975
	MOBILIZATION			8%	\$2,585,598
	SUBTOTAL D				\$34,905,573
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	90,200	\$1.50	\$135,300
	MATERIAL QUALITY (AC)	Tons	19,700	\$1.50	\$29,550
	SMOOTHNESS	LN.MILE	12.24	\$11,000	\$134,640
	TOTAL INCENTIVES				\$299,490
	SUBTOTAL E				\$36,032,960
	CONSTRUCTION ENGINEERING			9%	\$3,242,966
	CONSTRUCTION CONTINGENCY			5%	\$1,801,648
	TOTAL ESTIMATED CONSTRUCTION COST				\$37,834,608
	DESIGN ENGINEERING (8%)			8%	\$3,026,769
	ROW	ACRE	22.5	\$315,400	\$7,096,500
	TOTAL COST				\$47,957,877

Table 14-4 D

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L

ID NO.

SECTION Segment3 - Indian School Road

WORK DESCRIPTION: 6-lane freeway

LENGTH 1.01 Mile

Level 1

PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	3,600	\$3.87	\$13,932
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	47,490	\$9.50	\$451,155
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	663,864	\$7.00	\$4,647,048
	TOTAL ITEM 200				\$5,116,804
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	96,120	\$50.35	\$4,839,642
	ASPHALT PAVEMENT	SQ. YD.	9,590	\$21.79	\$208,966
	TOTAL ITEM 300 & 400				\$5,048,608
500	DRAINAGE				
	ON-SITE	MILE	1.01	\$2,640,264	\$2,666,667
	OFF-SITE	MILE	1	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,851,485
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$109	\$2,938,451
	ADMP STRUCTURE	SQ.FT.	6,144	\$55	\$337,920
	TOTAL ITEM 600				\$3,276,371
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.01	\$981,699	\$991,516
	LIGHTING	MILE	1.01	\$973,595	\$983,331
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.01	\$232,961	\$235,291
	TOTAL ITEM 700				\$2,844,138
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.01	\$1,105,281	\$1,116,334
	TOTAL ITEM 800				\$1,116,334
900	INCIDENTALS				
	WELL RELOCATION	EACH	0	\$684,000	\$0
	WALLS (SOUND)	SQ.FT.	43,200	\$30	\$1,296,000
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.01	\$1,165,748	\$1,177,405
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$2,535,000
SUBTOTAL A					\$25,788,740
MISCELLANEOUS WORK				20%	\$5,157,748
SUBTOTAL B					\$30,946,488
	DUST PALLIATIVE			2%	\$618,930
	FURNISH WATER			2%	\$618,930
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,547,324
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$618,930
	CONTRACTOR QUALITY CONTROL			4%	\$1,237,860
	TOTAL				\$4,641,974
SUBTOTAL C					\$35,588,462
MOBILIZATION				8%	\$2,847,077
SUBTOTAL D					\$38,435,539
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	96,120	\$1.50	\$144,180
	MATERIAL QUALITY (AC)	Tons	6,400	\$1.50	\$9,600
	SMOOTHNESS	LN.MILE	12.12	\$11,000	\$133,320
	TOTAL INCENTIVES				\$287,100
SUBTOTAL E					\$39,551,873
CONSTRUCTION ENGINEERING				9%	\$3,559,669
CONSTRUCTION CONTINGENCY				5%	\$1,977,594
TOTAL ESTIMATED CONSTRUCTION COST					\$41,529,467
	DESIGN ENGINEERING (8%)			8%	\$3,322,357
	ROW	ACRE	7.8	\$315,400	\$2,460,120
TOTAL COST					\$47,311,944

Table 14-4 E

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L

ID NO.

SECTION Segment 4 - Camelback Road

WORK DESCRIPTION: 6-lane freeway

LENGTH 1.00 Mile

Level 1

PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	10,200	\$3.87	\$39,474
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	44,773	\$9.50	\$425,344
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	1,981,906	\$6.00	\$11,891,436
	BORROW	CU. YD.	0	\$7.00	\$0
	TOTAL ITEM 200				\$12,360,923
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	86,490	\$50.35	\$4,354,772
	ASPHALT PAVEMENT	SQ. YD.	9,540	\$21.79	\$207,877
	TOTAL ITEM 300 & 400				\$4,562,648
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,640,464	\$2,640,464
	OFF-SITE	MILE	1.00	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,825,282
600	STRUCTURES				
	BRIDGE	SQ.FT.	48,400	\$109	\$5,251,884
	ADMP STRUCTURE	SQ.FT.	8,900	\$55	\$489,500
	TOTAL ITEM 600				\$5,741,384
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.00	\$232,961	\$232,961
	TOTAL ITEM 700				\$2,822,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
	TOTAL ITEM 800				\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	1	\$900,000	\$900,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$2,811,000
SUBTOTAL A					\$35,228,773
MISCELLANEOUS WORK				10%	\$3,522,877
SUBTOTAL B					\$38,751,650
	DUST PALLIATIVE			2%	\$775,033
	FURNISH WATER			2%	\$775,033
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,937,583
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$775,033
	CONTRACTOR QUALITY CONTROL			4%	\$1,550,066
	TOTAL				\$5,812,748
SUBTOTAL C					\$44,564,398
MOBILIZATION				8%	\$3,565,152
SUBTOTAL D					\$48,129,550
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	86,490	\$1.50	\$129,735
	MATERIAL QUALITY (AC)	Tons	6,400	\$1.50	\$9,600
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
	TOTAL INCENTIVES				\$271,335
SUBTOTAL E					\$49,234,831
CONSTRUCTION ENGINEERING				9%	\$4,431,135
CONSTRUCTION CONTINGENCY				5%	\$2,461,742
TOTAL ESTIMATED CONSTRUCTION COST					\$51,696,573
	DESIGN ENGINEERING (8%)			8%	\$4,135,726
	ROW	ACRE	282	\$220,900	\$62,293,800
TOTAL COST					\$118,126,099

Table 14-4 F

ARIZONA DEPARTMENT OF TRANSPORTATION VALLEY PROJECT MANAGEMENT SECTION MAG CONSTRUCTION COST ESTIMATE					
HIGHWAY SR 303 L		ID NO.	WORK DESCRIPTION: 6-lane freeway		
SECTION Segment 5 - Bethany Home Road					
LENGTH 1.01 Mile		Level 1	PROJECT STATUS: DCR May 2008		
ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	5,900	\$3.87	\$22,833
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	48,790	\$9.50	\$463,505
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	635,528	\$7.00	\$4,448,696
TOTAL ITEM 200					\$4,939,703
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	89,650	\$50.35	\$4,513,878
	ASPHALT PAVEMENT	SQ. YD.	9,590	\$21.79	\$208,966
TOTAL ITEM 300 & 400					\$4,722,844
500	DRAINAGE				
	ON-SITE	MILE	1.01	\$2,640,264	\$2,666,667
	OFF-SITE	MILE	1.01	\$3,184,818	\$3,216,666
	PUMP STATION	EACH	0		\$0
TOTAL ITEM 500					\$5,883,333
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$109	\$2,938,451
	ADMP STRUCTURE	SQ.FT.	11,000	\$55	\$605,000
TOTAL ITEM 600					\$3,543,451
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.01	\$981,699	\$991,516
	LIGHTING	MILE	1.01	\$973,595	\$983,331
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.01	\$232,961	\$235,291
TOTAL ITEM 700					\$2,844,138
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.01	\$1,105,281	\$1,116,334
TOTAL ITEM 800					\$1,116,334
900	INCIDENTALS				
	WELL RELOCATION	EACH	2	\$684,000	\$1,368,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.01	\$1,165,748	\$1,177,405
	UTILITY RELOCATION	L.SUM	1	\$25,000	\$25,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$2,632,000
SUBTOTAL A					\$25,681,803
MISCELLANEOUS WORK				20%	\$5,136,361
SUBTOTAL B					\$30,818,164
	DUST PALLIATIVE			2%	\$616,363
	FURNISH WATER			2%	\$616,363
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,540,908
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$616,363
	CONTRACTOR QUALITY CONTROL			4%	\$1,232,727
	TOTAL				\$4,622,724
SUBTOTAL C					\$35,440,888
MOBILIZATION				8%	\$2,835,271
SUBTOTAL D					\$38,276,159
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	89,650	\$1.50	\$134,475
	MATERIAL QUALITY (AC)	Tons	6,400	\$1.50	\$9,600
	SMOOTHNESS	LN.MILE	12.12	\$11,000	\$133,320
TOTAL INCENTIVES					\$277,395
SUBTOTAL E					\$39,392,493
CONSTRUCTION ENGINEERING				9%	\$3,545,324
CONSTRUCTION CONTINGENCY				5%	\$1,969,625
TOTAL ESTIMATED CONSTRUCTION COST					\$41,362,118
DESIGN ENGINEERING (8%)				8%	\$3,308,969
ROW		ACRE	17.3	\$315,400	\$5,456,420
TOTAL COST					\$50,127,507

Table 14-4 G

ARIZONA DEPARTMENT OF TRANSPORTATION VALLEY PROJECT MANAGEMENT SECTION MAG CONSTRUCTION COST ESTIMATE					
HIGHWAY SR 303 L		ID NO.	WORK DESCRIPTION: 6-lane freeway		
SECTION Segment 6 - Glendale Avenue					
LENGTH 1.00 Mile		Level 1	PROJECT STATUS: DCR May 2008		
ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	8,700	\$3.87	\$33,669
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	45,335	\$9.50	\$430,683
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	607,479	\$7.00	\$4,252,353
TOTAL ITEM 200					\$4,721,374
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	88,960	\$50.35	\$4,479,136
	ASPHALT PAVEMENT	SQ. YD.	9,500	\$21.79	\$207,005
TOTAL ITEM 300 & 400					\$4,686,141
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,640,264	\$2,640,264
	OFF-SITE	MILE	1.00	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
TOTAL ITEM 500					\$5,825,082
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$109	\$2,938,451
	ADMP STRUCTURE	SQ.FT.	9,455	\$55	\$520,025
TOTAL ITEM 600					\$3,458,476
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.00	\$232,961	\$232,961
TOTAL ITEM 700					\$2,822,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
TOTAL ITEM 800					\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$1,911,000
SUBTOTAL A					\$24,529,609
MISCELLANEOUS WORK				20%	\$4,905,922
SUBTOTAL B					\$29,435,531
	DUST PALLIATIVE			2%	\$588,711
	FURNISH WATER			2%	\$588,711
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,471,777
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$588,711
	CONTRACTOR QUALITY CONTROL			4%	\$1,177,421
	TOTAL				\$4,415,331
SUBTOTAL C					\$33,850,862
MOBILIZATION				8%	\$2,708,069
SUBTOTAL D					\$36,558,931
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	88,960	\$1.50	\$133,440
	MATERIAL QUALITY (AC)	Tons	6,400	\$1.50	\$9,600
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
TOTAL INCENTIVES					\$275,040
SUBTOTAL E					\$37,664,212
CONSTRUCTION ENGINEERING				9%	\$3,389,779
CONSTRUCTION CONTINGENCY				5%	\$1,883,211
TOTAL ESTIMATED CONSTRUCTION COST					\$39,547,423
DESIGN ENGINEERING (8%)				8%	\$3,163,794
ROW		ACRE	11	\$315,400	\$3,469,400
TOTAL COST					\$46,180,617



Table 14-4 H

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment 7 - Northern Avenue      WORK DESCRIPTION: 6-lane freeway  
LENGTH 1.00 Mile      Level 1      PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	3,400	\$3.87	\$13,158
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNE	CU. YD.	73,638	\$9.50	\$699,561
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	776,553	\$6.00	\$4,659,318
	BORROW	CU. YD.	383,500	\$7.00	\$2,684,500
	TOTAL ITEM 200				\$8,061,206
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	75,120	\$50.35	\$3,782,292
	ASPHALT PAVEMENT	SQ. YD.	25,890	\$21.79	\$564,143
	TOTAL ITEM 300 & 400				\$4,346,435
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,640,264	\$2,640,264
	OFF-SITE	MILE	1.00	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,825,082
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,420	\$109	\$2,975,344
	ADMP STRUCTURE	SQ.FT.	12,800	\$55	\$704,000
	TOTAL ITEM 600				\$3,679,344
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.00	\$232,961	\$232,961
	TOTAL ITEM 700				\$2,822,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
	TOTAL ITEM 800				\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	1,200	\$65	\$78,000
	MAJOR ITEMS OF WORK (Conc. barrier, C&G et	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$1,928,000
SUBTOTAL A					\$27,767,603
MISCELLANEOUS WORK				20%	\$5,553,521
SUBTOTAL B					\$33,321,124
	DUST PALLIATIVE			2%	\$666,422
	FURNISH WATER			2%	\$666,422
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,666,056
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$666,422
	CONTRACTOR QUALITY CONTROL			4%	\$1,332,845
	TOTAL				\$4,998,167
SUBTOTAL C					\$38,319,291
MOBILIZATION				8%	\$3,065,543
SUBTOTAL D					\$41,384,834
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	75,120	\$1.50	\$112,680
	MATERIAL QUALITY (AC)	Tons	17,400	\$1.50	\$26,100
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
	TOTAL INCENTIVES				\$270,780
SUBTOTAL E					\$42,490,115
CONSTRUCTION ENGINEERING				9%	\$3,824,110
CONSTRUCTION CONTINGENCY				5%	\$2,124,506
TOTAL ESTIMATED CONSTRUCTION COST					\$44,614,621
DESIGN ENGINEERING (8%,'				8%	\$3,569,170
ROW				ACRE	96.5
TOTAL COST					\$315,400
					\$30,436,100
TOTAL COST					\$78,619,891

Table 14-4 I

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment 7A - Northern Parkway TI      WORK DESCRIPTION: 6-lane freeway  
LENGTH 1.00 Mile      Level 1      PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	1,100	\$3.87	\$4,257
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	88,963	\$7.00	\$622,741
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$9.50	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	1,124,797	\$7.00	\$7,873,579
	TOTAL ITEM 200				\$8,500,577
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	41,050	\$50.35	\$2,066,868
	ASPHALT PAVEMENT	SQ. YD.	0	\$21.79	\$0
	TOTAL ITEM 300 & 400				\$2,066,868
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$1,500,000	\$1,500,000
	OFF-SITE	L.SUM	1	\$500,000	\$500,000
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$2,000,000
600	STRUCTURES				
	BRIDGE	SQ.FT.	140,495	\$109	\$15,245,112
	ADMP STRUCTURE	SQ.FT.	0	\$55	\$0
	TOTAL ITEM 600				\$15,245,112
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	0	\$317,000	\$0
	ITS	MILE	1.00	\$232,961	\$232,961
	TOTAL ITEM 700				\$2,188,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
	TOTAL ITEM 800				\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	0	\$684,000	\$0
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	14,175	\$65	\$921,375
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.	L.SUM	1	\$1,581,000	\$1,581,000
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$2,502,000
SUBTOTAL A					\$33,608,093
MISCELLANEOUS WORK				20%	\$6,721,619
SUBTOTAL B					\$40,329,712
	DUST PALLIATIVE			2%	\$806,594
	FURNISH WATER			2%	\$806,594
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$2,016,486
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$806,594
	CONTRACTOR QUALITY CONTROL			4%	\$1,613,188
	TOTAL				\$6,049,456
SUBTOTAL C					\$46,379,168
MOBILIZATION				8%	\$3,710,333
SUBTOTAL D					\$50,089,501
INCENTIVES					
	MATERIAL QUALITY (PCCP)	SQ. YD.	41,050	\$1.50	\$61,575
	MATERIAL QUALITY (AC)	Tons	0	\$1.50	\$0
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
	TOTAL INCENTIVES				\$193,575
SUBTOTAL E					\$51,194,782
CONSTRUCTION ENGINEERING				9%	\$4,607,530
CONSTRUCTION CONTINGENCY				5%	\$2,559,739
TOTAL ESTIMATED CONSTRUCTION COST					\$53,754,521
DESIGN ENGINEERING (8%,'				8%	\$4,300,362
ROW				ACRE	27.3
TOTAL COST					\$315,400
					\$8,610,420
TOTAL COST					\$66,665,303

Table 14-4 J

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment 8 - Olive Avenue  
LENGTH 1.00 Mile      Level 1

WORK DESCRIPTION: 6-lane freeway  
  
PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	8,500	\$3.87	\$32,895
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	70,047	\$9.50	\$665,447
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	1,078,071	\$7.00	\$7,546,497
TOTAL ITEM 200					\$8,249,508
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	74,370	\$50.35	\$3,744,530
	ASPHALT PAVEMENT	SQ. YD.	24,530	\$21.79	\$534,509
TOTAL ITEM 300 & 400					\$4,279,038
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,640,264	\$2,640,264
	OFF-SITE	MILE	1.00	\$3,184,818	\$3,184,818
	PUMP STATION	EACH	0		\$0
TOTAL ITEM 500					\$5,825,082
600	STRUCTURES				
	BRIDGE	SQ.FT.	41,060	\$109	\$4,455,421
	ADMP STRUCTURE	SQ.FT.	16,900	\$55	\$929,500
TOTAL ITEM 600					\$5,384,921
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL (1 added for each railroad crossing)	EACH	4	\$317,000	\$1,268,000
	ITS	MILE	1.00	\$232,961	\$232,961
TOTAL ITEM 700					\$3,456,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
TOTAL ITEM 800					\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	2	\$684,000	\$1,368,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	1,200	\$65	\$78,000
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
TOTAL ITEM 900					\$2,612,000
SUBTOTAL A					\$30,912,085
MISCELLANEOUS WORK				20%	\$6,182,417
SUBTOTAL B					\$37,094,502
				2%	\$741,890
				2%	\$741,890
				5%	\$1,854,725
				2%	\$741,890
				4%	\$1,483,780
TOTAL					\$5,564,175
SUBTOTAL C					\$42,658,677
MOBILIZATION				8%	\$3,412,694
SUBTOTAL D					\$46,071,371
INCENTIVES					
		SQ. YD.	74,370	\$1.50	\$111,555
		Tons	16,400	\$1.50	\$24,600
		LN.MILE	12	\$11,000	\$132,000
TOTAL INCENTIVES					\$268,155
SUBTOTAL E					\$47,176,652
CONSTRUCTION ENGINEERING				9%	\$4,245,899
CONSTRUCTION CONTINGENCY				5%	\$2,358,833
TOTAL ESTIMATED CONSTRUCTION COST					\$49,535,485
DESIGN ENGINEERING (8%)				8%	\$3,962,839
ROW		ACRE	50.4	\$315,400	\$15,896,160
TOTAL COST					\$69,394,484

Table 14-4 K

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment 9 - Peoria Avenue  
LENGTH 1.00 Mile      Level 1

WORK DESCRIPTION: 6-lane freeway  
  
PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	4,400	\$3.87	\$17,028
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$7.00	\$4,669
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	46,222	\$9.50	\$439,109
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	702,870	\$7.00	\$4,920,090
TOTAL ITEM 200					\$5,380,896
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	88,150	\$50.35	\$4,438,353
	ASPHALT PAVEMENT	SQ. YD.	9,500	\$21.79	\$207,005
TOTAL ITEM 300 & 400					\$4,645,358
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$1,315,221	\$1,315,221
	OFF-SITE	MILE	1.00	\$1,646,192	\$1,646,192
	PUMP STATION	EACH	0		\$0
TOTAL ITEM 500					\$2,961,413
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$109	\$2,938,451
	ADMP STRUCTURE	SQ.FT.	6,144	\$55	\$337,920
TOTAL ITEM 600					\$3,276,371
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$981,699	\$981,699
	LIGHTING	MILE	1.00	\$973,595	\$973,595
	SIGNAL	EACH	2	\$317,000	\$634,000
	ITS	MILE	1.00	\$232,961	\$232,961
TOTAL ITEM 700					\$2,822,255
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$1,105,281	\$1,105,281
TOTAL ITEM 800					\$1,105,281
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	0	\$25	\$0
	WALLS (RETAINING)	SQ.FT.	940	\$65	\$61,100
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc)	MILE	1.00	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
TOTAL ITEM 900					\$1,911,000
SUBTOTAL A					\$22,102,574
MISCELLANEOUS WORK				20%	\$4,420,515
SUBTOTAL B					\$26,523,089
				2%	\$530,462
				2%	\$530,462
				5%	\$1,326,154
				2%	\$530,462
				4%	\$1,060,924
TOTAL					\$3,978,464
SUBTOTAL C					\$30,501,553
MOBILIZATION				8%	\$2,440,124
SUBTOTAL D					\$32,941,677
INCENTIVES					
		SQ. YD.	88,150	\$1.50	\$132,225
		Tons	6,400	\$1.50	\$9,600
		LN.MILE	12	\$11,000	\$132,000
TOTAL INCENTIVES					\$273,825
SUBTOTAL E					\$34,046,958
CONSTRUCTION ENGINEERING				9%	\$3,064,226
CONSTRUCTION CONTINGENCY				5%	\$1,702,348
TOTAL ESTIMATED CONSTRUCTION COST					\$35,749,306
DESIGN ENGINEERING (8%)				8%	\$2,859,944
ROW		ACRE	22.6	\$126,800	\$2,865,680
TOTAL COST					\$41,474,930

Table 14-4 L

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY	SR 303 L	ID NO.	WORK DESCRIPTION: 6-lane freeway		
SECTION	Segment 10 - Cactus Road		PROJECT STATUS: DCR May 2008		
LENGTH	0.98 Mile	Level 1			
ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	9,400	\$5.53	\$51,982
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$6.00	\$4,002
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	56,572	\$4.50	\$254,574
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	1,519,682	\$6.00	\$9,118,092
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$9,428,650
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	86,460	\$56.08	\$4,848,677
	ASPHALT PAVEMENT	SQ. YD.	9,320	\$29.51	\$275,033
	TOTAL ITEM 300 & 400				\$5,123,710
500	DRAINAGE				
	ON-SITE	MILE	0.98	\$1,315,221	\$1,288,917
	OFF-SITE	MILE	0.98	\$1,646,192	\$1,613,268
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$2,902,185
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$155	\$4,209,315
	ADMP STRUCTURE	SQ.FT.	6,144	\$55	\$337,920
	TOTAL ITEM 600				\$4,547,235
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	0.98	\$612,071	\$599,830
	LIGHTING	MILE	0.98	\$769,179	\$753,795
	SIGNAL	EACH	2	\$166,900	\$333,800
	ITS	MILE	0.98	\$385,491	\$377,781
	TOTAL ITEM 700				\$2,065,206
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	0.98	\$952,263	\$933,218
	TOTAL ITEM 800				\$933,218
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	0		\$0
	WALLS (RETAINING)	SQ.FT.	940	\$73	\$68,376
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	0.98	\$955,096	\$935,994
	UTILITY RELOCATION	L.SUM	1	\$819,000	\$819,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$2,507,000
SUBTOTAL A					\$27,507,204
MISCELLANEOUS WORK					
				20%	\$5,501,441
SUBTOTAL B					\$33,008,645
	DUST PALLIATIVE			2%	\$660,173
	FURNISH WATER			2%	\$660,173
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,650,432
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$660,173
	CONTRACTOR QUALITY CONTROL			4%	\$1,320,346
	TOTAL				\$4,951,297
SUBTOTAL C					\$37,959,942
MOBILIZATION					
				8%	\$3,036,795
SUBTOTAL D					\$40,996,737
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	86,460	\$1.50	\$129,690
	MATERIAL QUALITY (AC)	Tons	6,200	\$1.50	\$9,300
	SMOOTHNESS	LN.MILE	11.76	\$11,000	\$129,360
	TOTAL INCENTIVES				\$268,350
SUBTOTAL E					\$41,929,955
CONSTRUCTION ENGINEERING					
				9%	\$3,773,696
CONSTRUCTION CONTINGENCY					
				5%	\$2,096,498
TOTAL ESTIMATED CONSTRUCTION COST					\$44,026,453
	DESIGN ENGINEERING (8%)			8%	\$3,522,116
	ROW	ACRE	74	\$126,800	\$9,383,200
TOTAL COST					\$56,931,769

Table 14-4 M

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY	SR 303 L	ID NO.	WORK DESCRIPTION: 6-lane freeway		
SECTION	Segment 11 - Waddell Road		PROJECT STATUS: DCR May 2008		
LENGTH	1.02 Mile	Level 1			
ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	2,837	\$5.53	\$15,689
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$6.00	\$4,002
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	43,124	\$4.50	\$194,058
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	782,260	\$10.00	\$7,822,600
	TOTAL ITEM 200				\$8,036,349
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	90,640	\$56.08	\$5,083,091
	ASPHALT PAVEMENT	SQ. YD.	9,680	\$29.51	\$285,657
	TOTAL ITEM 300 & 400				\$5,368,748
500	DRAINAGE				
	ON-SITE	MILE	1.02	\$1,315,221	\$1,341,525
	OFF-SITE	MILE	1.02	\$1,646,192	\$1,679,116
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$3,020,641
600	STRUCTURES				
	BRIDGE	SQ.FT.	27,080	\$155	\$4,209,315
	ADMP STRUCTURE	SQ.FT.	6,144	\$55	\$337,920
	TOTAL ITEM 600				\$4,547,235
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.02	\$612,071	\$624,312
	LIGHTING	MILE	1.02	\$769,179	\$784,563
	SIGNAL	EACH	2	\$166,900	\$333,800
	ITS	MILE	1.02	\$385,491	\$393,201
	TOTAL ITEM 700				\$2,135,876
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.02	\$952,263	\$971,308
	TOTAL ITEM 800				\$971,308
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	84,800	\$58	\$4,889,568
	WALLS (RETAINING)	SQ.FT.	940	\$73	\$68,376
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.)	MILE	1.02	\$955,096	\$974,198
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$6,616,000
SUBTOTAL A					\$30,696,157
MISCELLANEOUS WORK					
				20%	\$6,139,231
SUBTOTAL B					\$36,835,388
	DUST PALLIATIVE			2%	\$736,708
	FURNISH WATER			2%	\$736,708
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,841,769
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$736,708
	CONTRACTOR QUALITY CONTROL			4%	\$1,473,416
	TOTAL				\$5,525,309
SUBTOTAL C					\$42,360,697
MOBILIZATION					
				8%	\$3,388,856
SUBTOTAL D					\$45,749,553
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	90,640	\$1.50	\$135,960
	MATERIAL QUALITY (AC)	Tons	6,500	\$1.50	\$9,750
	SMOOTHNESS	LN.MILE	12.24	\$11,000	\$134,640
	TOTAL INCENTIVES				\$280,350
SUBTOTAL E					\$46,720,861
CONSTRUCTION ENGINEERING					
				9%	\$4,204,877
CONSTRUCTION CONTINGENCY					
				5%	\$2,336,043
TOTAL ESTIMATED CONSTRUCTION COST					\$49,056,904
	DESIGN ENGINEERING (8%)			8%	\$3,924,552
	ROW	ACRE	7.3	\$126,800	\$925,640
TOTAL COST					\$53,907,096

Table 14-4 N

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment 12 - Greenway Road  
LENGTH 1.00 Mile      Level 1

WORK DESCRIPTION: 6-lane freeway  
  
PROJECT STATUS: DCR MAY 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	501,649	\$5.53	\$2,774,119
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	778	\$6.00	\$4,668
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	23,322	\$4.50	\$104,949
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$2,883,736
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	90,990	\$56.08	\$5,102,719
	ASPHALT PAVEMENT	SQ. YD.	9,900	\$29.51	\$292,149
	TOTAL ITEM 300 & 400				\$5,394,868
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$1,315,221	\$1,315,221
	OFF-SITE	MILE	1.00	\$1,646,192	\$1,646,192
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$2,961,413
600	STRUCTURES				
	BRIDGE	SQ.FT.	34,100	\$155	\$5,300,504
	ADMP STRUCTURE	SQ.FT.	6,144	\$55	\$337,920
	TOTAL ITEM 600				\$5,638,424
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$612,071	\$612,071
	LIGHTING	MILE	1.00	\$769,179	\$769,179
	SIGNAL	EACH	2	\$166,900	\$333,800
	ITS	MILE	1.00	\$385,491	\$385,491
	TOTAL ITEM 700				\$2,100,541
800	LANDSCAPING				
	LANDSCAPING/EROSION CONTROL	MILE	1.00	\$952,263	\$952,263
	TOTAL ITEM 800				\$952,263
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	169,600	\$58	\$9,779,136
	WALLS (RETAINING)	SQ.FT.	22,820	\$73	\$1,659,927
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.	MILE	1.00	\$955,096	\$955,096
	UTILITY RELOCATION	L.SUM	1	\$300,000	\$300,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$13,378,000
SUBTOTAL A					\$33,309,245
MISCELLANEOUS WORK				20%	\$6,661,849
SUBTOTAL B					\$39,971,094
	DUST PALLIATIVE			2%	\$799,422
	FURNISH WATER			2%	\$799,422
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,998,555
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$799,422
	CONTRACTOR QUALITY CONTROL			4%	\$1,598,844
	TOTAL				\$5,995,665
SUBTOTAL C					\$45,966,759
MOBILIZATION				8%	\$3,677,341
SUBTOTAL D					\$49,644,100
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	90,990	\$1.50	\$136,485
	MATERIAL QUALITY (AC)	Tons	6,600	\$1.50	\$9,900
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
	TOTAL INCENTIVES				\$278,385
SUBTOTAL E					\$50,596,363
CONSTRUCTION ENGINEERING				9%	\$4,553,673
CONSTRUCTION CONTINGENCY				5%	\$2,529,818
TOTAL ESTIMATED CONSTRUCTION COST					\$53,126,181
	DESIGN ENGINEERING (8%)			8%	\$4,250,094
	ROW	ACRE	6.8	\$126,800	\$862,240
TOTAL COST					\$58,238,515

Table 14-4 O

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L      ID NO.  
SECTION Segment13 - Bell Road  
LENGTH 1.00 Mile      Level 1

WORK DESCRIPTION: 6-lane freeway  
  
PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	1,063,914	\$5.50	\$5,851,527
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$6.50	\$4,336
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	12,139	\$6.50	\$78,904
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$5.50	\$0
	TOTAL ITEM 200				\$5,934,766
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	91,470	\$55.79	\$5,103,111
	ASPHALT PAVEMENT	SQ. YD.	9,900	\$29.51	\$292,149
	TOTAL ITEM 300 & 400				\$5,395,260
500	DRAINAGE				
	ON-SITE	MILE	1.00	\$2,673,600	\$2,673,600
	OFF-SITE	MILE	1.00	\$3,115,197	\$3,115,197
	PUMP STATION	EACH	0	\$4,871,948	\$0
	TOTAL ITEM 500				\$5,788,797
600	STRUCTURES				
	BRIDGE	SQ.FT.	40,700	\$156	\$6,336,583
	ADMP STRUCTURE	SQ.FT.	4,375	\$55	\$240,625
	TOTAL ITEM 600				\$6,577,208
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.00	\$746,374	\$746,374
	LIGHTING	MILE	1.00	\$670,812	\$670,812
	SIGNAL	EACH	2	\$150,000	\$300,000
	ITS	MILE	1.00	\$376,764	\$376,764
	TOTAL ITEM 700				\$2,093,950
800	LANDSCAPING				
	LANDSCAPING	MILE	1.00	\$750,000	\$750,000
	TOTAL ITEM 800				\$750,000
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	169,600	\$25	\$4,240,000
	WALLS (RETAINING)	SQ.FT.	47,700	\$65	\$3,100,500
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc.	MILE	1.00	\$1,101,509	\$1,101,509
	UTILITY RELOCATION	L.SUM	1	\$225,000	\$225,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$9,351,000
SUBTOTAL A					\$35,890,981
MISCELLANEOUS WORK				20%	\$7,178,196
SUBTOTAL B					\$43,069,177
	DUST PALLIATIVE			2%	\$861,384
	FURNISH WATER			2%	\$861,384
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$2,153,459
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$861,384
	CONTRACTOR QUALITY CONTROL			4%	\$1,722,767
	TOTAL				\$6,460,378
SUBTOTAL C					\$49,529,555
MOBILIZATION				8%	\$3,962,364
SUBTOTAL D					\$53,491,919
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	91,470	\$1.50	\$137,205
	MATERIAL QUALITY (AC)	Tons	6,600	\$1.50	\$9,900
	SMOOTHNESS	LN.MILE	12	\$11,000	\$132,000
	TOTAL INCENTIVES				\$279,105
SUBTOTAL E					\$54,241,919
CONSTRUCTION ENGINEERING				9%	\$4,881,773
CONSTRUCTION CONTINGENCY				5%	\$2,712,096
TOTAL ESTIMATED CONSTRUCTION COST					\$56,954,015
	DESIGN ENGINEERING (8%)			8%	\$4,556,321
	ROW	ACRE	4.1	\$126,800	\$519,880
TOTAL COST					\$62,030,216



Table 14-4 P

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L                      ID NO.                      WORK DESCRIPTION: 6-lane freeway  
SECTION Segment 14 - Clearview Blvd  
LENGTH 1.01 Mile                      Level 1                      PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	318,185	\$5.50	\$1,750,018
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	667	\$6.50	\$4,336
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$6.50	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$5.50	\$0
	TOTAL ITEM 200				\$1,754,353
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	51,860	\$55.78	\$2,892,751
	ASPHALT PAVEMENT	SQ. YD.	9,990	\$29.71	\$296,803
	TOTAL ITEM 300 & 400				\$3,189,554
500	DRAINAGE				
	ON-SITE	MILE	1.01	\$2,673,600	\$2,700,336
	OFF-SITE	MILE	1.01	\$3,115,197	\$3,146,349
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,846,685
600	STRUCTURES				
	BRIDGE	SQ.FT.	0	\$156	\$0
	ADMP STRUCTURE	SQ.FT.	0	\$55	\$0
	TOTAL ITEM 600				\$0
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.01	\$746,374	\$753,838
	LIGHTING	MILE	1.01	\$670,812	\$677,520
	SIGNAL	EACH	0	\$150,000	\$0
	ITS	MILE	1.01	\$376,764	\$380,532
	TOTAL ITEM 700				\$1,811,890
800	LANDSCAPING				
	LANDSCAPING	MILE	1.01	\$750,000	\$757,500
	TOTAL ITEM 800				\$757,500
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	169,600	\$30	\$5,088,000
	WALLS (RETAINING)	SQ.FT.	24,800	\$65	\$1,612,000
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc	MILE	1.01	\$1,101,509	\$1,112,524
	UTILITY RELOCATION	L.SUM	1	\$25,000	\$25,000
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$8,522,000
	SUBTOTAL A				\$21,881,982
	MISCELLANEOUS WORK			20%	\$4,376,396
	SUBTOTAL B				\$26,258,378
	DUST PALLIATIVE			2%	\$525,168
	FURNISH WATER			2%	\$525,168
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,312,919
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$525,168
	CONTRACTOR QUALITY CONTROL			4%	\$1,050,335
	TOTAL				\$3,938,758
	SUBTOTAL C				\$30,197,136
	MOBILIZATION			8%	\$2,415,771
	SUBTOTAL D				\$32,612,907
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	51,860	\$1.50	\$77,790
	MATERIAL QUALITY (AC)	Tons	6,700	\$1.50	\$10,050
	SMOOTHNESS	LN.MILE	12.12	\$11,000	\$133,320
	TOTAL INCENTIVES				\$221,160
	SUBTOTAL E				\$33,370,407
	CONSTRUCTION ENGINEERING			9%	\$3,003,337
	CONSTRUCTION CONTINGENCY			5%	\$1,668,520
	TOTAL ESTIMATED CONSTRUCTION COST				\$35,038,927
	DESIGN ENGINEERING (8%,'			8%	\$2,803,114
	ROW	ACRE	0	\$126,800	\$0
	TOTAL COST				\$37,842,041

Table 14-4 Q

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L                      ID NO.                      WORK DESCRIPTION: 6-lane freeway  
SECTION Segment 15 - Mountainview Blvd  
LENGTH 0.94 Mile                      Level 1                      PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	68,606	\$5.50	\$377,333
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	11,963	\$6.50	\$77,760
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$6.00	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$455,093
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	48,980	\$55.78	\$2,732,104
	ASPHALT PAVEMENT	SQ. YD.	9,340	\$29.51	\$275,623
	TOTAL ITEM 300 & 400				\$3,007,728
500	DRAINAGE				
	ON-SITE	MILE	0.94	\$2,673,600	\$2,513,184
	OFF-SITE	MILE	0.94	\$3,115,197	\$2,928,285
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$5,441,469
600	STRUCTURES				
	BRIDGE	SQ.FT.	0	\$156	\$0
	ADMP STRUCTURE	SQ.FT.	0	\$55	\$0
	TOTAL ITEM 600				\$0
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	0.94	\$746,374	\$701,592
	LIGHTING	MILE	0.94	\$670,812	\$630,563
	SIGNAL	EACH	0	\$175,000	\$0
	ITS	MILE	0.94	\$376,764	\$354,158
	TOTAL ITEM 700				\$1,686,313
800	LANDSCAPING				
	LANDSCAPING	MILE	0.94	\$750,000	\$705,000
	TOTAL ITEM 800				\$705,000
900	INCIDENTALS				
	WELL RELOCATION	EACH	0	\$684,000	\$0
	WALLS (SOUND)	SQ.FT.	192,000	\$30	\$5,760,000
	WALLS (RETAINING)	SQ.FT.	0	\$65	\$0
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc	MILE	0.94	\$1,101,509	\$1,035,418
	UTILITY RELOCATION	L.SUM	0		\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$6,795,000
	SUBTOTAL A				\$18,090,603
	MISCELLANEOUS WORK			20%	\$3,618,121
	SUBTOTAL B				\$21,708,724
	DUST PALLIATIVE			2%	\$434,174
	FURNISH WATER			2%	\$434,174
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$1,085,436
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$434,174
	CONTRACTOR QUALITY CONTROL			4%	\$868,349
	TOTAL				\$3,256,307
	SUBTOTAL C				\$24,965,031
	MOBILIZATION			8%	\$1,997,202
	SUBTOTAL D				\$26,962,233
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	48,980	\$1.50	\$73,470
	MATERIAL QUALITY (AC)	Tons	6,300	\$1.50	\$9,450
	SMOOTHNESS	LN.MILE	11.28	\$11,000	\$124,080
	TOTAL INCENTIVES				\$207,000
	SUBTOTAL E				\$27,667,233
	CONSTRUCTION ENGINEERING			9%	\$2,490,051
	CONSTRUCTION CONTINGENCY			5%	\$1,383,362
	TOTAL ESTIMATED CONSTRUCTION COST				\$29,050,595
	DESIGN ENGINEERING (8%,'			8%	\$2,324,048
	ROW	ACRE	0	\$315,400	\$0
	TOTAL COST				\$31,374,643



Table 14-4 R

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L                      ID NO.                      WORK DESCRIPTION: 6-lane freeway  
SECTION Segment 16 - US60  
LENGTH 2.82 Mile (1.53 Mile 303 + 1.29 Mile US 60)      Level 1 PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	988,066	\$5.50	\$5,434,363
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	181,000	\$6.50	\$1,176,500
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$6.00	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$6,610,863
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	208,155	\$55.78	\$11,610,886
	ASPHALT PAVEMENT	SQ. YD.	14,350	\$29.51	\$423,469
	TOTAL ITEM 300 & 400				\$12,034,354
500	DRAINAGE				
	ON-SITE	MILE	2.82	\$2,673,600	\$7,539,552
	OFF-SITE	MILE	2.82	\$3,115,197	\$8,784,856
	PUMP STATION	EACH	1	\$4,871,948	\$4,871,948
	TOTAL ITEM 500				\$21,196,356
600	STRUCTURES				
	BRIDGE (8 Structures)	SQ.FT.	144,995	\$156	\$22,574,272
	ADMP STRUCTURE	SQ.FT.	0	\$55	\$0
	TOTAL ITEM 600				\$22,574,272
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	2.82	\$746,374	\$2,104,775
	LIGHTING	MILE	2.82	\$670,812	\$1,891,690
	SIGNAL	EACH	1	\$175,000	\$175,000
	ITS	MILE	2.82	\$376,764	\$1,062,474
	TOTAL ITEM 700				\$5,233,939
800	LANDSCAPING				
	LANDSCAPING	MILE	2.82	\$750,000	\$2,115,000
	TOTAL ITEM 800				\$2,115,000
900	INCIDENTALS				
	WELL RELOCATION	EACH	1	\$684,000	\$684,000
	WALLS (SOUND)	SQ.FT.	280,000	\$30	\$8,400,000
	WALLS (RETAINING)	SQ.FT.	150,930	\$65	\$9,810,450
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc)	MILE	2.82	\$1,101,509	\$3,106,255
	UTILITY RELOCATION	L.SUM	1		\$0
	RAILROAD SHOOFLY	EACH	1	\$2,200,000	\$2,200,000
	TOTAL ITEM 900				\$24,201,000
	SUBTOTAL A				\$93,965,784
	MISCELLANEOUS WORK			20%	\$18,793,157
	SUBTOTAL B				\$112,758,941
	DUST PALLIATIVE			2%	\$2,255,179
	FURNISH WATER			2%	\$2,255,179
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$5,637,947
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$2,255,179
	CONTRACTOR QUALITY CONTROL			4%	\$4,510,358
	TOTAL				\$16,913,842
	SUBTOTAL C				\$129,672,783
	MOBILIZATION			8%	\$10,373,823
	SUBTOTAL D				\$140,046,606
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	208,155	\$1.50	\$312,233
	MATERIAL QUALITY (AC)	Tons	9,600	\$1.50	\$14,400
	SMOOTHNESS	LN.MILE	33.84	\$11,000	\$372,240
	TOTAL INCENTIVES				\$698,873
	SUBTOTAL E				\$142,161,606
	CONSTRUCTION ENGINEERING			9%	\$12,794,545
	CONSTRUCTION CONTINGENCY			5%	\$7,108,080
	TOTAL ESTIMATED CONSTRUCTION COST				\$149,269,686
	DESIGN ENGINEERING (8%)			8%	\$11,941,575
	ROW	ACRE	70.6	\$126,800	\$8,952,080
	TOTAL COST				\$170,163,341

Table 14-5

ARIZONA DEPARTMENT OF TRANSPORTATION  
VALLEY PROJECT MANAGEMENT SECTION  
MAG CONSTRUCTION COST ESTIMATE

HIGHWAY SR 303 L                      ID NO.                      WORK DESCRIPTION: 6-lane freeway  
SECTION Segment 1 - I10 TI Phase 2  
LENGTH 1.06 Mile                      Level 1                      PROJECT STATUS: DCR May 2008

ITEM	MAJOR ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
200	EARTH WORK				
	ROADWAY EXCAVATION	CU. YD.	1,963,300	\$3.87	\$7,597,971
	DRAINAGE EXCAVATION - ONSITE	CU. YD.	250,000	\$7.00	\$1,750,000
	DRAINAGE EXCAVATION - OFFSITE CHANNEL	CU. YD.	0	\$6.00	\$0
	DRAINAGE EXCAVATION - OFFSITE BASIN	CU. YD.	0	\$6.00	\$0
	BORROW	CU. YD.	0	\$10.00	\$0
	TOTAL ITEM 200				\$9,347,971
300 & 400	BASE AND SURFACE TREATMENT				
	CONCRETE PAVEMENT/AR-ACFC	SQ. YD.	88,500	\$50.35	\$4,455,975
	ASPHALT PAVEMENT	SQ. YD.	10,585	\$21.79	\$230,647
	TOTAL ITEM 300 & 400				\$4,686,622
500	DRAINAGE				
	ON-SITE	MILE	1.06	\$2,640,264	\$2,798,680
	OFF-SITE (Van Buren to I-10)	L.SUM	1		\$0
	PUMP STATION	EACH	0		\$0
	TOTAL ITEM 500				\$2,798,680
600	STRUCTURES				
	BRIDGE	SQ.FT.	296,960	\$120	\$35,635,200
	RID CANAL STRUCTURE	SQ.FT.	42,000	\$55	\$2,310,000
	TOTAL ITEM 600				\$37,945,200
700	TRAFFIC ENGINEERING				
	SIGNING & STRIPING	MILE	1.06	\$981,699	\$1,040,601
	LIGHTING	MILE	1.06	\$973,595	\$1,032,011
	SIGNAL	EACH	0	\$175,000	\$0
	ITS	MILE	1.06	\$232,961	\$246,939
	TOTAL ITEM 700				\$2,319,551
800	LANDSCAPING				
	LANDSCAPING	MILE	1.06	\$1,105,281	\$1,171,598
	TOTAL ITEM 800				\$1,171,598
900	INCIDENTALS				
	WELL RELOCATION	EACH	0	\$684,000	\$0
	WALLS (SOUND)	SQ.FT.	0	\$30	\$0
	WALLS (RETAINING)	SQ.FT.	85,015	\$65	\$5,525,975
	MAJOR ITEMS OF WORK (Conc. barrier, C&G etc)	MILE	1	\$1,165,748	\$1,165,748
	UTILITY RELOCATION	L.SUM	0	\$0	\$0
	RAILROAD SHOOFLY	EACH	0		\$0
	TOTAL ITEM 900				\$6,692,000
	SUBTOTAL A				\$64,961,622
	MISCELLANEOUS WORK			20%	\$12,992,324
	SUBTOTAL B				\$77,953,946
	DUST PALLIATIVE			2%	\$1,559,079
	FURNISH WATER			2%	\$1,559,079
	MAINTENANCE AND PROTECTION OF TRAFFIC			5%	\$3,897,697
	EROSION CONTROL AND POLLUTION PREVENTION			2%	\$1,559,079
	CONTRACTOR QUALITY CONTROL			4%	\$3,118,158
	TOTAL				\$11,693,092
	SUBTOTAL C				\$89,647,038
	MOBILIZATION			8%	\$7,171,763
	SUBTOTAL D				\$96,818,801
	INCENTIVES				
	MATERIAL QUALITY (PCCP)	SQ. YD.	88,500	\$1.50	\$132,750
	MATERIAL QUALITY (AC)	Tons	7,100	\$1.50	\$10,650
	SMOOTHNESS	LN.MILE	12.72	\$11,000	\$139,920
	TOTAL INCENTIVES				\$283,320
	SUBTOTAL E				\$97,990,399
	CONSTRUCTION ENGINEERING			9%	\$8,819,136
	CONSTRUCTION CONTINGENCY			5%	\$4,899,520
	TOTAL ESTIMATED CONSTRUCTION COST				\$102,889,919
	DESIGN ENGINEERING (8%)			8%	\$8,231,194
	ROW	ACRE	0	\$315,400	\$0
	TOTAL COST				\$111,121,113